



# DPC - 100

## SINGLE INPUT PROCESS INDICATOR

### Features

- ON/OFF controller
- Single Channel
- Universal Input
- Open Sensor Indication
- Software Calibration
- Cold junction Compensation for thermocouple input



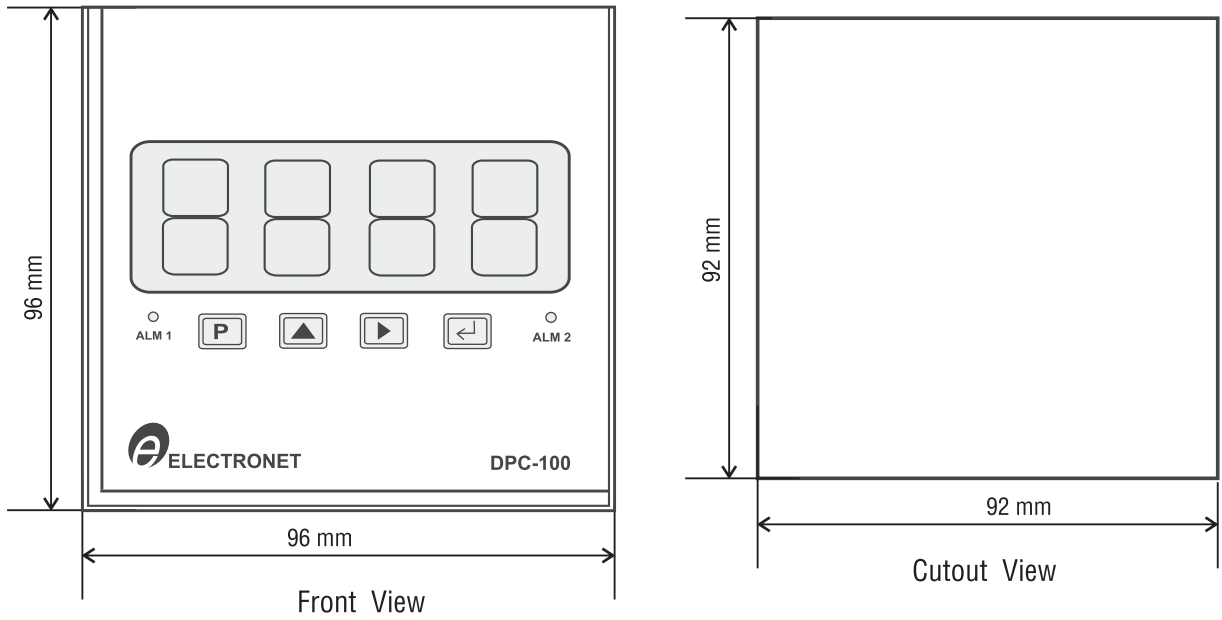
### Description

**E**lectronet Series DPC-100 is universal input Process Indicator / Controller specially designed for various industrial applications. These can be used for monitoring and controlling parameters like Temperature, Humidity, Pressure, Flow, Level etc. The measuring range and control points are able to set through the keypad on front fascia and control output is available at the rear terminals. Retransmission output & communication port are additive features of DPC-100.

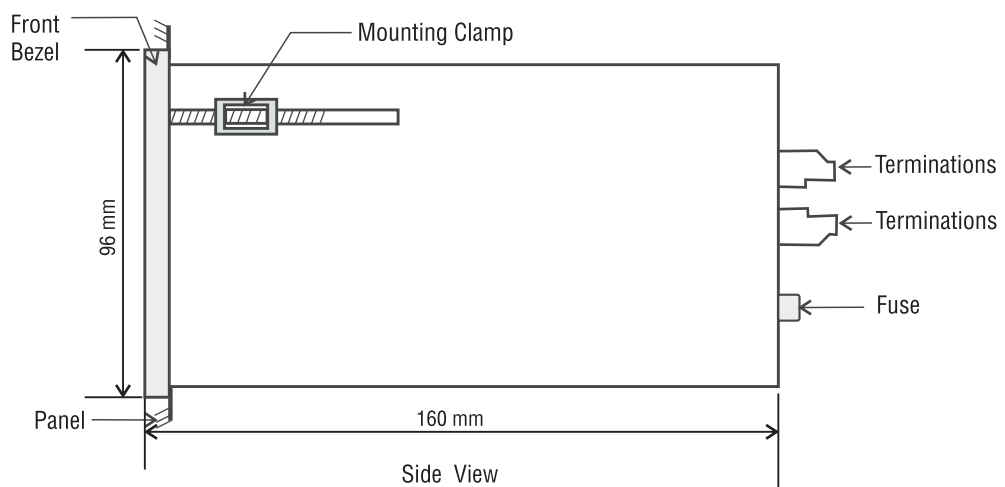
### Technical Specifications

Type of Control	ON/OFF
No. of Input	01 No.
Input	Universal
	1) RTD (PT-100 / PT-200) 2 or 3 Wire
	2) Thermocouple (J / K / R / S / T / B / E Type)
	3) Current (0-20 mA / 4-20 mA) 4) Voltage (0-5 V DC / 1-5 V DC/ 0 - 0.1V DC)
Display	4 x 1 Digit, 0.8", 7 Segment Red LED
Range	Programmable for mA & Voltage (-999 to +9999)
Accuracy	1) For R, S & B type Thermocouple, better than $\pm 0.5\%$ of F. S.
	2) For rest inputs, better than $\pm 0.25\%$ of F. S.
Open Sensor Indication	'OPEN' on display for RTD & Thermocouple input
Power Supply	1) 24 V DC 2) 90 - 250 V AC, 50 Hz
Power Consumption	< 10 VA
Temperature Drift	< 0.01% of F. S. per $^{\circ}\text{C}$ change
Response Time	< 200 mSec
Isolation	1.4 KV between Input, Output & Power Supply
Enclosure	1) DIN STD.
	2) Weatherproof, IP-65
Dimensions	96 (H) x 96 (W) x 160 (D) in mm approx. for DIN STD. Enclosure
Mounting	Flush of the Panel for DIN STD & Wall mount for WP / FLP Enclosure
Weight	Less than 1 Kg (Approx.)
Operating Conditions	Temperature -20 to 55 $^{\circ}\text{C}$ / Humidity 5 to 95% non condensing
<b>OPTIONAL</b>	
Transmitter Supply	24 V DC, 30 mA
Retransmission Output	4 - 20 mA / 0 - 5 V, Isolated
Alarm Output	Potential free Relay Contact - 4 Nos. (1 c/o, 1A @ 230 V AC)
	Individual Configuration for high, low
Communication Port	RS 485 / RS 232 supporting MODBUS RTU protocol

Dimensional Details



Installation Drawing



## Ordering Information

29	43	52	53	57	59	60
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Parameter	Code	Value	Parameter	Code	Value				
29	Electronics Enclosure	29A	DIN	53	Communication Output 1	53A	RS 485		
		29B	Weather Proof			53B	RS 232		
		29C	Flame Proof			53C	GSM		
		53Y	None						
43	Input	43F	4 to 20mA	57	Retransmission Output 1	57A	4 to 20 mA		
		43G	0 to 5V / 1 to 5V			57B	0 to 5V		
		43J	RTD			57Y	None		
		43K	Thermocouple	59	Transmitter Power Supply	59B	24V DC, 30 mA		
		43M	Current			59Y	None		
		43N	Voltage			60	Input Power Supply	60A	90 to 250V AC
		43O	Universal					60B	24V DC
		43X	Other						
52	Alarm Output	52A	1 Alarm	Note : ▪ Due to our continuous product revisions, design specification and model numbers are subject to change without notice. ▪ Accuracy defined at Lab Conditions. ▪ For other requirement please consult factory.					
		52B	2 Alarm						
		52C	3 Alarm						
		52D	4 Alarm						
		52E	5 Alarm						
		52Y	None						

## Applications

Food Industry	Chemical Industry	Atomic Energy	Manufacturing Industry
Automation Industry	Thermal Power Energy	Process Industry	Water Treatment Industry

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